付録A　仕　様

型　名		Express5800/SG300e
		N8100-1341
プロセッサ	タイプ	Intel®Pentium®4プロセッサ651
	動作周波数	3.4GHz
	キャッシュメモリ	2M
	標準	1個
	最大	1個
チップセット		Intel 3000
メモリ	標準	512MB
	最大	4GB
	誤り検出・訂正機能	あり(ECC)
ハードディスクドライブ	標準	SATA2　80GB×1
	最大	RAID1構成時：SAS　73.2GB×2、RAID5構成時：SAS　73.2GB×3
ディスクアレイ		RAID構成時にはオプションのSASディスクアレイコントローラ(N8103-91)が必要
フロッピーディスクドライブ		3.5インチ×1(1.44MB,720KB対応)
DVD-ROMドライブ		DVD:3～8倍速、CD:10～24倍速(ATAPI、トレーロード式)
デバイスベイ(3.5インチ)		3スロット(うち1スロットはハードディスクドライブ占有)
拡張スロット(PCI)		2スロット(うち1スロットは1000BASE-Tボード占有)
内部ディスクインタフェース	SAS	なし(オプション)
	SATA	3チャネル
外部用インタフェース	シリアル	前面:D-sub 9-pin(RS-232C規格準拠)×1 背面:D-sub 9-pin(RS-232C規格準拠)×1
	ネットワーク	1000BASE-T×4
筐体デザイン		ラックマウント(1U)
外形寸法		428mm(幅)×579mm(奥行き)×43mm(高さ)*
質量(最大)		11.1kg(13.3kg)
電源		AC100V±10%, 50/60Hz±1Hz
消費電力		290VA、285W
環境条件	動作時	温度:10～35℃、湿度:20～80%(ただし、結露しないこと)
	保管時	温度: -10～55℃、湿度:20～80%(ただし、結露しないこと)

* 突起物/フロントベゼルを含んだ場合は485mm(幅)×632mm(奥行き)×43mm(高さ)

付録B　二重化機能のログメッセージ

二重化機能では動作の履歴や異常の検出をシステムログ（syslog）に出力します。出力するメッセージとその説明、対処方法は以下のようになります。

イベントID	イベント分類	メッセージ	説明	対処
IDM001	情報	Starting.....	クラスタシステムの起動中です。	－
IDM001	情報	Shutting down.....	クラスタシステムの終了中です。	－
IDM003	情報	stopping all process.....	内部プロセスが異常終了したため、全プロセスを停止します。	システムを再起動してください。
IDM004	情報	Halting system.....	内部プロセスが異常終了したため、システムを停止します。	
IDM005	情報	Rebooting system.....	内部プロセスが異常終了したため、システムを再起動します。	－
IDM006	情報	Restarting main process.....	main プロセスが異常終了したため、main プロセスを再起動します。	－
IDM007	情報	Restarting send process.....	sendプロセスが異常終了したため、sendプロセスを再起動します。	－
IDM008	情報	Restarting recv process.....	recvプロセスが異常終了したため、recvプロセスを再起動します。	－
IDM009	情報	Auto startup is disabled.	自動起動に設定されていません。	基本設定ツール（fwsetup）で自動起動するように設定してください。
EDM001	異常	Main process abnormal exit.....	内部異常を検出したため、mainプロセスが異常終了しました。	引き続きRestarting main processが出力されれば自動リカバリに成功しています。
EDM002	異常	Send process abnormal exit.....	内部異常を検出したため、HB送信プロセスが異常終了しました。	引き続きRestarting send processが出力されれば自動リカバリに成功しています。
EDM003	異常	Recv process abnormal exit.....	内部異常を検出したため、HB受信プロセスが異常終了しました。	引き続きRestarting recv processが出力されれば自動リカバリに成功しています。
EDM007	異常	Configuration file is invailed.	設定がされていないか、設定の情報が不正です。	基本設定ツール（fwsetup）で設定内容を確認してください。
EDM008	異常	Critical error occured	致命的な異常が発生しました。	システムを再起動してください。
IGM001	情報	%1 start.	業務%1が起動しました。Firewall機能が起動された側のサーバで出力されます。	－
IGM002	情報	%1 stop.	業務%1が停止しました。Firewall機能が停止された側のサーバで出力されます。	－
IGM003	情報	%1 failover start.	業務%1のフェイルオーバー処理を開始します。	－
IGM004	情報	%1 failback start.	業務%1のフェイルバック処理を開始します。	－
EGM001	異常	%1 start failed.	業務%1が起動に失敗しました。	リソースに異常がなければ、システムを再起動してください。
EGM002	異常	%1 stop failed.	業務%1が停止に失敗しました。	リソースに異常がなければ、システムを再起動してください。

イベントID	イベント分類	メッセージ	説明	対処
EGM003	異常	%1(%2) error. stop %2.	リソース%1に異常が発生しました。再起動できなかったため、業務%2を停止します。	%1が、 - FIPの場合、[ERFxxx]の項を参照してください。 - EXECの場合、[EREｘｘｘ]の項を参照してください。 - IPWの場合、[ERIxxx]の項を参照してください。 - PARPの場合、[ERPxxx]の項を参照してください。
EGM004	異常	%1(%2) error. failover %2.	リソース%1に異常が発生しました。業務%2をフェイルオーバします。	%1が、 - FIPの場合、[ERFxxx]の項を参照してください。 - EXECの場合、[EREｘｘｘ]の項を参照してください。 - IPWの場合、[ERIxxx]の項を参照してください。 - PARPの場合、[ERPxxx]の項を参照してください。
IMN001	情報	all node wake up.	起動待ち合わせ時間内に、全サーバが起動しました。	—
IMN002	情報	wait timeout.	起動待ち合わせがタイムアウトしました。	待機系サーバでFirewall機能が動作している可能性があります。運用系サーバが起動してきたら、必要に応じてFirewall機能を運用系サーバに移動してください。
IMN003	警告	%1 down.	サーバ%1がダウンしました。	サーバ%1の障害を取り除いてください。引き続きIGM001のイベントが登録されていれば、フェイルオーバが成功しています。
IMN004	情報	%1 up.	サーバ%1が起動しました。	—
IMN010	情報	ignore stop message from %1.	サーバ%1からの停止メッセージを無視しました。	—
EMN001	異常	boot fail. stop.	内部異常のためmainプロセスの起動に失敗しました。	システムを再起動してください。
IRF001	情報	%1(%2):%3/%4 turned available.	業務%1のFIPリソース%2(IPアドレス%3／ネットマスク%4)の活性に成功しました。(異常状態からの復帰時のみ出力)	—
ERF001	異常	%1(%2):%3/%4 can't enable.	業務%1のFIPリソース%2(IPアドレス%3／ネットマスク%4)の活性に失敗しました。	既に使用されているIPアドレスとFIPが重複している可能性があります。確認してください。
IRE001	情報	%1(%2):%3 turned executable.	業務%1のEXECリソース%2(実行パス%3)の実行に成功しました。(異常状態からの復帰時のみ出力)	—
ERE001	異常	%1(%2):%3 can't execute.	業務%1のEXECリソース%2(実行パス%3)の実行に失敗しました。	/opt/necfws/bin/ckcstat /opt/necfws/bin/ckfwalive のパスが存在していることを確認してください。
ERE002	異常	%1(%2):%3 is disappear.	業務%1のEXECリソース%2(実行パス%3)の監視で異常が発生しました。	Firewall 機能に異常が発生した可能性があります。VPN-1/FireWall-1 の管理GUIで状況を確認してください。
IRI001	情報	%1(%2):%3 turned reachable.	業務%1のIPWリソース%2(監視アドレス%3)との通信が復帰しました。	—
ERI001	異常	%1(%2):%3 can't reach.	業務%1のIPWリソース%2(監視アドレス%3)の監視で異常が発生しました。	監視対象のネットワークを確認してください。
IRP001	情報	%1(%2):%3 turned available.	業務%1のPARPリソース%2(IPアドレス%3)の活性に成功しました。(異常状態からの復帰時のみ出力)	—
ERP001	異常	%1(%2):%3 can't enable.	業務%1のFIPリソース%2(IPアドレス%3の活性に失敗しました。	既に使用されているIPアドレスとPARPアドレスが重複している可能性があります。確認してください。

付録

付録C　保守サービス会社網一覧

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トラブルなどについてのお問い合わせは下記までご連絡ください（電話番号のおかけ間違いにご注意ください）。その他のお問い合わせについては、下表を参照してください。

電話番号　0120-911-111

2007年2月現在

都道府県名	拠点名	電話番号	郵便番号	所在地
北海道	札幌支店	011-221-3705	060-0042	札幌市中央区大通西4-1　新大通ビル9F
	東札幌営業所	011-833-8640	003-0001	札幌市白石区東札幌1条1丁目6番33号
	釧路営業所	0154-32-7100	085-0816	釧路市錦町5-3　三ッ輪ビル2F
	旭川支店	0166-24-2098	070-0033	旭川市三条通9丁目左1号　明治安田生命旭川ビル1F
	オホーツク営業所	0157-25-7520	090-0024	北見市北四条東3-1-1　富士火災北見ビル3F
	苫小牧営業所	0144-36-3846	053-0022	苫小牧市王子町3-2-23　朝日生命苫小牧ビル2F
	室蘭営業所	0143-46-3180	050-0083	室蘭市東町2-24-4　石井第5ビル3F
	函館支店	0138-54-5642	040-0001	函館市五稜郭町1-14　住友生命五稜郭ビル3F
	道東支店	0155-25-4892	080-0013	帯広市西三条南10-32　日本生命帯広駅前ビル5F
	小樽営業所	0134-24-5685	047-0036	小樽市長橋3-4-14
青森	青森支店	017-735-8501	030-0802	青森市本町1-2-20　住友生命青森柳町ビル3F
	八戸営業所	0178-44-4354	031-0081	八戸市柏崎1-10-2　八戸第一生命ビル1F
	弘前営業所	0172-34-9083	036-8002	弘前市駅前2-2-2　弘前第一生命ビル1F
岩手	盛岡支店	019-635-3011	020-0866	盛岡市本宮3-13-20
	一関営業所	0191-25-6531	021-0041	一関市赤荻字月町218-2
宮城	仙台支店	022-292-1900	983-0852	仙台市宮城野区榴岡3-4-18　タカノボル22ビル4F
秋田	秋田支店	018-863-7938	010-0951	秋田市山王1-3-29
山形	山形支店	023-631-3502	990-2445	山形市南栄町3-6-34
	鶴岡営業所	0235-25-8386	997-0013	鶴岡市道形町23-31　山庄ビル1階
	米沢営業所	0238-24-1418	992-0027	米沢市駅前3-5-22　かなつビル1F
福島	郡山支店	024-938-5209	963-8022	郡山市西ノ内22-13
	福島支店	024-536-3703	960-8074	福島市西中央五丁目6番1号
	いわき営業所	0246-28-8371	970-8034	いわき市平上荒川字桜町34-1
	会津若松営業所	0242-28-7624	965-0818	会津若松市東千石2-1-45
茨城	鹿島営業所	0299-82-4860	314-0014	鹿嶋市光3　住友金属構内
	つくば支店	029-860-2000	305-0821	つくば市春日3-22-8
	水戸支店	029-257-1860	310-0911	水戸市見和3-575-3
栃木	宇都宮支店	028-632-8140	321-0954	宇都宮市元今泉2-7-6
	小山営業所	0285-21-1495	323-0807	小山市城東1-14-12　ウエルストン1ビル1F
群馬	群馬支店	027-255-5461	371-0855	前橋市問屋町2-4-3　NF3ビル4F
	太田営業所	0276-45-0666	373-0853	太田市浜町58-24

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埼玉	さいたま中央支店	048-660-1881	331-0812	さいたま市北区宮原町2-85-5
	熊谷営業所	048-527-0597	360-0036	熊谷市桜木町1-1-1　秩父鉄道熊谷ビル4F
	浦和営業所	048-866-5471	336-0022	さいたま市南区白幡4-12-19
	川越支店	04-2955-7695	350-1331	狭山市新狭山2-11-10
	越谷営業所	048-978-9500	343-0042	越谷市千間台東1-7-25　エムケービル1F
千葉	千葉支店	043-221-7660	260-0843	千葉市中央区末広1-12-15
	成田営業所	0476-22-5390	286-0044	成田市不動ヶ岡2152-2　成田旭ビル1F
	君津営業所	0439-55-7278	299-1144	君津市東坂田1-3-2　京葉君津ビル3F
	船橋支店	047-434-1611	273-0012	船橋市浜町2-1-1　ららぽーと三井ビル7F
	柏支店	04-7135-2400	277-0827	柏市松葉町2-5-1
	印西営業所	0476-46-4250	270-1352	印西市大塚1-9 千葉ニュータウンエネルギーセンター1階
東京	東京中央支店	03-3431-9191	105-0012	港区芝大門2-5-5　住友芝大門ビル3F
	大森支店	03-3764-0007	140-0013	品川区南大井6-25-3　ビリーヴ大森ビル8F
	三田支店	03-3452-6168	108-0073	港区三田1-4-28　三田国際ビル1F
	渋谷支店	03-5458-3341	150-0032	渋谷区鶯谷町2番3号　COMS（コムス）2F
	新宿支店	03-5155-7810	169-0072	新宿区大久保1-3-21　新宿TXビル6F
	日本橋支店	03-3297-0783	104-0032	中央区八丁堀4-5-8　ノワール八丁堀2F
	江東支店	03-3649-3230	135-0016	江東区東陽2-2-20　住友不動産東陽駅前ビル1F
	秋葉原支店	03-5821-2474	111-0052	台東区柳橋2-19-6　秀和柳橋ビル8F
	足立営業所	03-3888-7151	120-0034	足立区千住1-11-2　カーニープレイス千住7F
	神田支店	03-3233-2411	101-0064	千代田区猿楽町2-7-8　住友水道橋ビル8F
	東京流通 サービス部	03-5459-6051	150-0032	渋谷区鶯谷町2番3号　COMS（コムス）2F
	立川支店	042-527-2527	190-0022	立川市錦町2-4-6　住友生命立川ビル3F
	小金井支店	042-385-7666	184-0013	小金井市前原町5-9-7
神奈川	神奈川支店	045-314-7625	220-0004	横浜市西区北幸2-8-4　横浜西口KNビル11F
	横須賀営業所	046-827-3188	238-0004	横須賀市小川町14-1　ニッセイ横須賀センタービル1F
	川崎営業所	044-244-1083	210-0011	川崎市川崎区富士見1-6-3　TOKICO事務棟ビル3F
	相模原支店	042-746-6111	228-0803	相模原市相模大野7-1-6　相模大野第一生命ビル4F
	厚木支店	046-225-0411	243-0018	厚木市中町四丁目16-21　プロミティあつぎビル5階
	平塚支店	0463-21-4777	254-0035	平塚市宮の前1-2　あいおい損保平塚第一ビル2F
	藤沢営業所	0466-22-0204	251-0055	藤沢市南藤沢17-10　コア湘南田村ビル１F
	玉川支店	044-814-1551	213-0002	川崎市高津区二子5-1-1　高津パークプラザビル4F
山梨	甲府支店	055-226-7564	400-0858	甲府市相生2-3-16　三井住友海上甲府ビル3F
	富士吉田営業所	0555-23-9515	403-0005	富士吉田市上吉田3726　ヤマナシ文具センタービル1F
長野	松本支店	0263-27-7070	399-0033	松本市笹賀6096-1
	岡谷営業所	0266-24-4870	394-0031	岡谷市田中町2-8-5　岡谷サンプラザビル4階
	長野支店	026-224-0050	380-0824	長野市南石堂町1293　清水長野ビル1F
	上田営業所	0268-27-6336	386-0032	上田市諏訪形5-1　豊成ビル5F
	飯田営業所	0265-53-7043	395-0815	飯田市松尾常盤台73-10
新潟	新潟支店	025-243-2315	950-0986	新潟市神道寺南2-4-15
	長岡営業所	0258-35-5217	940-0034	長岡市福住2-3-6　小林石油ビル
富山	富山支店	076-442-2605	930-0004	富山市桜橋通り1-18　住友生命富山ビル1F
	黒部営業所	0765-54-0447	938-0031	黒部市三日市字新光寺1880-1
	高岡営業所	0766-25-4212	933-0912	高岡市丸の内1-40　高岡商工ビル8F
石川	金沢支店	076-223-3188	920-0864	金沢市高岡町1-39　住友生命金沢高岡町ビル1F
	小松営業所	0761-24-3782	923-0926	小松市竜助町36　小松東京海上日動ビルディング3F
	七尾営業所	0767-54-0298	926-0801	七尾市昭和町51-2
福井	福井支店	0776-54-6637	918-8206	福井市北四ツ居町518

都道府県名	拠点名	電話番号	郵便番号	所在地
岐阜	東濃営業所	0572-55-4578	509-5132	土岐市泉町大富261-8
	岐阜支店	058-275-8801	500-8367	岐阜市宇佐南3-4-7
	高山営業所	0577-33-6524	506-0021	高山市名田町5-95-2　第3みたかビル5F
	中濃営業所	0574-27-6431	505-0041	美濃加茂市太田町飛鹿1927-2
静岡	静岡支店	054-202-6120	422-8061	静岡市駿河区森下町1-35　静岡MYタワー2F
	富士営業所	0545-64-6735	416-0944	富士市横割1-17-24　FCビル2F
	沼津支店	055-973-6001	411-0906	駿東郡清水町八幡88-1
	浜松支店	053-466-0205	435-0047	浜松市原島町111
	掛川営業所	0537-23-2181	436-0056	掛川市中央1-4-2　タウンビル3F
愛知	名古屋支店	052-264-7525	460-0007	名古屋市中区新栄2-28-22　NEC名古屋ビル5F
	名南営業所	052-694-1031	457-0862	名古屋市南区内田橋1-8-5　アートライフ・タケセイ1F
	半田営業所	0569-22-2762	475-0903	半田市出口町1-130-1　森田ビル4F
	小牧支店	0568-75-5594	485-0029	小牧市中央1-271　大垣共立銀行小牧支店ビル4F
	名西営業所	052-442-7451	490-1111	海部郡甚目寺町大字甚目寺字山王22 （株）シーエスイー山王ビル
	岡崎営業所	0564-23-5020	444-0044	岡崎市康生通南3-5　住友生命岡崎第二ビル1F
	豊橋営業所	0532-55-3063	440-0084	豊橋市下地町瀬上83
	三河支店	0565-34-1168	471-0034	豊田市小坂本町1-5-3　朝日生命新豊田ビル4F
三重	三重支店	059-227-1622	514-0042	津市新町3-2-1
	四日市営業所	0593-51-0425	510-0075	四日市市安島1-5-10　KOSCO四日市西浦ビル2F
	伊賀上野営業所	0595-23-8914	518-0873	伊賀市上野丸之内128　共立ビル2F
滋賀	滋賀支店	077-525-3156	520-0043	大津市中央4-5-4　BKビル
	彦根営業所	0749-24-1784	522-0073	彦根市旭町8-20
	八日市営業所	0748-25-0680	527-0022	東近江市八日市上之町2-7　ウイング八日市3F
京都	京都支店	075-812-5800	604-8804	京都市中京区壬生坊城町24-1　古川勘ビル4F
	福知山営業所	0773-23-6287	620-0942	福知山市駅南町3-6　竹下駅南ビル2F
	亀岡営業所	0771-25-7320	621-0805	亀岡市安町中畠1-2　スカイビル7F
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	大阪支店	06-6264-2828	541-0053	大阪市中央区本町2-1-6　堺筋本町センタービル6F
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	東大阪支店	0729-24-6780	581-0803	八尾市光町1-61　嶋野・住友生命ビル7F
	南大阪支店	072-223-8595	590-0075	堺市南花田口町2-3-20　住友生命堺東ビル　南館4F
兵庫	豊岡営業所	0796-24-0331	668-0043	豊岡市桜町15-1　幸栄ビル1F
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	佐世保営業所	0956-34-3811	857-1161	佐世保市大塔町1266-24
	諫早営業所	0957-23-0471	854-0016	諫早市高城町5-10　諫早商工会館5F
熊本	熊本支店	096-383-6777	862-0925	熊本市保田窪本町1-40
大分	大分支店	097-503-2555	870-0921	大分市萩原4-9-65
	中津営業所	0979-23-1182	871-0058	中津市豊田町2-423-10　6 BILL 5F
宮崎	宮崎支店	0985-27-4477	880-0806	宮崎市広島1-18-7　大同生命宮崎ビル9F
	延岡営業所	0982-35-7545	882-0847	延岡市旭町3-1-1 旭化成ネットワークス（株）本社棟1F
	都城営業所	0986-23-4821	885-0021	都城市平江町13街区15　富士火災海上保険ビル3F
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~Memo~

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■ 謝辞

Linus Torvalds氏をはじめとするLinuxに関わるすべての皆様に心より感謝いたします。

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